HOMEWORK FOR THE YEAR
WHEN YOU HAVE A QUIZ, EXAM, OR WE MOVE ONTO A NEW UNIT START THE NEXT ONE!!!!!
IF YOU HAVE QUESTIONS --- ASK
THEY WILL ALSO BE IN THE DAY TO DAY NOTES ON THE SMART BOARD

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***Homework* = Read pages 3-9 and 10 - 15**
Do review questions 1 & 2 pg 9 and 2 & 3 pg 15
Key Terms – science, observation, inference, hypothesis, controlled experiment, independent variable, dependent variable, control group, data, theory, bias

***Homework* = read pages 17 – 25**
Do all review questions 1,2,3 pg 25 .
Key Terms = biology, DNA, stimulus, sexual reproduction, asexual reproduction, homeostasis, metabolism, biosphere, cells, growth, nutrition

***Homework* = read pages 34 - 53**
Do all review questions 1,2,3 pg 38 & 1,2,3 pg 44 & 1,2 pg 49 & 2,3 pg 53 .
Key Terms = atom, nucleus, electron, element, isotope, compound, ionic bond, ion, covalent bond, molecule, hydrogen bond, cohesion, adhesion, mixture, solution, solute, solvent, suspension, pH scale, acid, base, buffer, monomer, polymer, carbohydrate, monosaccharide, lipid, nucleic acid, nucleotide, protein, amino acid, chemical reaction, reactant, product, activation energy, catalyst, enzyme, substrate

***Homework* = read pages 189 - 217**
Do review questions 3 pg 194 & 4,5 pg 205 & 1,2 pg 213 & 1 pg 217
Key Terms = cell, cell theory, cell membrane, nucleus, eukaryote, prokaryote, light microscope, diffusion, endocytosis, exocytosis, cytoplasm, organelle, vacuole, lysosome, cytoskeleton, centriole, ribosome, endoplasmic reticulum, Golgi apparatus (Golgi body), chloroplast, mitochondria, ATP, cell wall, lipid bilayer, selectively permeable, semi-permeable, facilitated diffusion, osmosis, isotonic, hypertonic, hypotonic, osmotic pressure, turgor pressure, homeostasis, tissue, organ, organ system, receptor
KNOW – Hooke, Leuenhooke, Schleiden, Schwann, Virchow
- ***Cell Theory***

***Homework* = Answer the following questions:**
Why is cell communication important and how does it work?
Describe how each of the receptors work.
Describe diffusion and osmosis.
Describe the sodium potassium pump.

***Homework* = read pages 225 – 241**
Do review questions 1,2 pg 228 & 1,2 pg 234 & 3 pg 241
Summarize the three stages of photosynthesis and where each one takes place.
What is the chemical formula of photosynthesis?
How do the stages of photosynthesis depend on the previous stage?
Key Terms – adenosine triphosphate, heterotroph, autotroph, photosynthesis, pigment, chlorophyll, thylakoid, stroma, NADP, light dependent reactions, light independent reactions (dark reactions), photosystem, electron transport chain, ATP synthase, Calvin cycle

***Homework* = read pages 249 - 265**
Answer review questions 1,3,4 pg 260, 1,2 pg 265.
Key terms = calorie, cellular respiration, aerobic, anaerobic, glycolysis, NAD, Krebs cycle, matrix, fermentation, bacteria, lactic acid, alcohol fermentation

***Homework* = complete these help / review questions**

- **Where does the glucose come from that is in your body?**
- **Where does the oxygen come from that you use?**
- **What is the role of the oxygen atom?**
- **What are the differences between how a car burns gasoline and how your body burns glucose?**

***Homework*= Read pages 274 – 285 & 323 – 329, & 426,427**
Do review questions 1 pg 278, & 1 pg 284, 3 pg 329, &
and:
Explain the significance of sex chromosomes.
What causes genetic variation in offspring? (3 major events or processes)

Key Terms: cell division, asexual reproduction, sexual reproduction, chromosome, chromatin, cell cycle, interphase, mitosis, cytokinesis, prophase, centromere, chromatid, centriole, metaphase, anaphase, telophase, homologous, diploid, haploid, meiosis, crossing-over, zygote, allele, gene, cloning

Human cloning paper

***Homework* = Read pages 286 – 290, & 338 – 353, & 372 - 376**
Do review questions 2 pg 290, 3 pg 343, 1,2 pg 348, 2 pg 376
Key terms = cancer, tumor, benign, malignant, lymphoma, carcinoma, leukemia, mutagen, carcinogen, germ cell mutation, somatic cell mutation, gamete, oncogene, transformation, bacteriophage, base pairing, plasmid, mutation, point mutation, frameshift mutation, polyploidy

***Homework* = read pages 350 - 353**
Do review questions 1,2 pg 353
Key terms = nucleotide, double helix, mutagen, nitrogen base, DNA, replication, DNA polymerase, telomere

***Homework* = read pages 361 – 371, 377 - 383**
Do review questions 1 & 2 pg 365, 1,3 pg 371, 3 pg 383
Key terms = RNA, messenger RNA, ribosomal RNA, transfer RNA, transcription, RNA polymerase, promoter, intron, exon, polypeptide, genetic code, codon, translation, anticodon, gene expression, operon, operator, RNA interference, differentiation, homeotic gene, homeobox gene, Hox gene

***Homework* = read pages 391 – 410 & 418 - 439**
Do review questions 2 pg 397, 1,2 pg 401, 1,2 pg 409, 1,2 pg 427, 1,2,3 pg 434, 1,2 pg 439.
Key terms = genome, karyotype, sex chromosomes, autosome, sex-linked gene, pedigree, nondisjunction, restriction enzymes, gel electrophoresis, bioinformatics, genomics, selective breeding, hybridization, inbreeding, biotechnology, polymerase chain reaction, recombinant DNA, plasmid, genetic marker, transgenic, clone, gene therapy, DNA fingerprinting, forensics

***Homework* = read pages 553 -558, 450 – 473 & 538 - 552**
Do review questions 3 pg 558, 2 pg 458, 1,2 pg 464, 3 pg 473, 1,pg 545, .
Key terms = endosymbiotic theory, evolution, fossil, artificial selection, adaptation, fitness, natural selection, biogeography, homologous structure, analogous structure, vestigial structure, extinct, half-life, geologic time scale, gradualism, punctuated equilibrium, adaptive radiation, convergent evolution, coevolution

Homework = Evidence of Evolution Worksheet

***Homework* = read pages 482 – 497 & 510 - 514**
Do review questions 1,2 pg 486, 1,3 pg 492,
Key terms = gene pool, allele frequency, single gene trait, polygenetic trait, directional selection, stabilizing selection, disruptive selection, genetic drift, bottleneck effect, founder effect, genetic equilibrium, Hardy-Weinberg principle, sexual selection, species, speciation, reproductive isolation, behavioral isolation, geographic isolation, temporal isolation, binomial nomenclature, genus, systematics, taxon, family, order class, phylum, kingdom

***Homework* = Read pages – 634 – 638, 646 – 654, 680 – 684, 696 - 707**
Do review questions 1,2 pg 638, 1 pg 649, 1,2 pg 684, 1,2 pg 707 and:
Be able to label a diagram of a flower and explain the function of each.
Describe some of the requirements for some seeds to germinate.
What is required for all seeds to germinate?
Key terms: sporophyte, gametophyte, seed, gymnosperm, angiosperm, pollen grain, pollination, seed coat, ovule, pollen tube, ovary, fruit, cotyledon, monocot, dicot, woody plant, herbaceous plant, stoma, guard cell, cuticle, xylem, phloem, palisade layer, spongy layer, sepal, petal, stamen, pistil, stigma, anther, filament, style, double fertilization, grafting, germination, dormancy

***Homework* = Read pages 988 - 1001 & 292 - 297**
Review Questions 2 pg 1001, 2,3 pg 297
Key terms = puberty, testis, scrotum, seminiferous tubule, epididymis, vas deferens, semen, ovary, menstrual cycle, ovulation, corpus luteum, menstruation, sexually transmitted disease, zygote, blastocyst, implantation, gastrulation, neurulation, placenta, fetus, embryo, differentiation, stem cell, abortion, miscarriage

Homework = read pages 922 - 927
Do review questions 2 pg 927
Key terms = bone marrow, cartilage, ossification, joint, ligament,

Homework = read pages 928 - 933
Do review questions 1,2,3 pg 933
Key Terms = muscle fiber, myofibril, myosin, actin, sarcomere, neuromuscular junction, tendon

Homework = read 954 – 961, 935 - 939
Do review questions 1,2 pg 961, 1 pg 939
Key terms = plasma, red blood cells, hemoglobin, white blood cells, platelet, lymph, epidermis, keratin, melanin, dermis, sebaceous gland, hair follicle

***Homework* = read pages 882 - 887**
Review questions 1,2,3 pg 887
Key terms = kidney, nephron, filtration, reabsorption, excretion, ureter, urinary bladder, urethra, Bowman's capsule

***Homework* = read pages 896 - 904**
Do review questions 3 pg 900, 2 pg 904
Key terms = neuron, nerve, dendrite, axon, myelin sheath, synapse, neurotransmitter, central nervous system, peripheral nervous system, cerebrum, cerebellum, hypothalamus, sensory neuron, reflex, autonomic nervous system, brain stem, dopamine

***Homework* = read pages 948 - 953**
Do review questions 3 pg 953
Key Terms = myocardium, atrium, ventricle, valve, pulmonary circulation, systemic circulation, pacemaker, artery, capillary, vein, blood pressure, cardiovascular disease, hypertension

***Homework* = read pages 868 - 881**
Do review questions 1,2 pg 873, 2, 3 pg 881.
Key terms = calorie, carbohydrate, fat, protein, vitamin, mineral, mechanical digestion, chemical digestion, amylase, esophagus, peristalsis, stomach, pepsin, small intestine, villus, micro villus, large intestine

***Homework* = read 963 - 969**
Review question 2 pg 969
Key terms = pharynx, trachea, larynx, bronchus, alveolus, diaphragm, inhalation, exhalation, asthma, emphysema, lung cancer

***Homework* = read pages 978 – 987 & 1010 - 1027**
Do review questions 1,2 pg 981, 2 pg 987, 1,2 pg 1013, 2,3 pg 1019, 1,3 pg 1022, 1 pg 1027.
Key terms = hormone, target cell, exocrine gland, endocrine gland, pituitary gland, releasing hormone, corticosteroid, epinephrine, norepinephrine, thyroxine, calcitonin, parathyroid hormone, infectious disease, germ theory of disease, Koch's postulates, zoonosis, vector, inflammatory response, histamine, interferon, fever, immune response, antigen, antibody, humoral immunity, aell-mediated immunity, vaccination, active immunity, passive immunity, allergy, asthma

***Homework* = 64 - 145**
Do all review questions 1,2,3 pg 68, 1 pg 72, 1,2 pg 78, 4 pg 86, 1,2,3,4 pg 104, 1,2 pg 109, 1,3pg 121, 1,2,3,4 pg 135, 1,2 pg 141
Key terms = biosphere, species, population, community, ecology, ecosystem, biome, biotic factor, abiotic factor, autotroph, primary producer, photosynthesis, chemosynthesis, heterotroph, consumer, carnivore, herbivore, scavenger, omnivore, decomposer, detritivore, food chain, phytoplankton, food web, zooplankton, trophic level, ecological pyramid, biomass, nutrient, limiting nutrient, weather, climate, microclimate, greenhouse effect, tolerance, habitat, niche, resource, predation, herbivory, keystone species, symbiosis, mutualism, parasitism, cemmensalism, ecological succession, primary succession, pioneer species, secondary succession, wetland, population density, carrying capacity, limiting factor, demography

***Homework* = read pages 154 - 179**
Do review questions 1,2 pg 157, 1,2 pg 165, 1a,1b,2 pg 172, 1,2 pg 179.
Key terms = monoculture, renewable resource, nonrenewable resource, sustainable development, desertification, deforestation, pollutant, biological magnification (bioaccumulation), smog, acid rain, biodiversity, ecosystem diversity, species diversity, genetic diversity, habitat fragmentation, ecological hot spot, ecological footprint, ozone layer, aquaculture, global warming